

*A cooperative journal to promote the free association
of those working toward the integration of all
knowledge through the study of the whole of things,
Nature, Man and Society, assuming the universe
to be one, dependable, intelligible, harmonious.*

MAIN CURRENTS

IN MODERN THOUGHT

Index

VOLUME 24, SEPTEMBER 1967-MAY 1968

ARTICLES:

"Empiricism and Science," by John G. Gill 31
"Fresh Evidence for a Biophysical Field," by G. P. Barnard and James H. Stephenson 115
"Geology Today," by Kirtley F. Mather 138
"Human Settlements: Challenge and Response," by C. A. Doxiadis 59
"Integrative Education in the Sciences," by Henry Margenau 36
"Integrative Principles in Biology," by Robert M. Thornton 91
"Intelligence and Intuition," by F. L. Kunz 50
"The Interrelation of Sounds and Colors," by Laxmi P. Sihare 130
"Meditation for School Children," by M. Lietaert Peerbolte 19
"Moral Values: A Statement," by Kieran J. Carroll 105
"More About Purpose," by John G. Gill 107
"The Philosophy of Science: its Functions," by P.A.Y. Gunter 68
"Reaching and Teaching the Ghetto Child," by Michael Obsatz 102
"The Reform of Education," by Ervand George Kogbetliantz 11
"Soul, Individual and Collective," by Michael H. Murray 98
"The Student Revolt," by Violet Ketels and Renee Weber 123
"Substance," by B.V. Subbarayappa 15
"The Unity of the Arts and Sciences," by Ervin Laszlo 75
"The View from Zorna," by Richard O. Whipple 3, 42
"The Viewpoint of a Contemporary Psychologist," by Gardner Murphy 48

BOOKS REVIEWED:

A Glimpse of Eden, Evelyn Ames 87
Animal Forms and Patterns, Adolf Portmann 25
The Authentic Teacher, Clark Moustakas 87
Evolving Mankind's Future, Julius Stulman 86
How Children Learn, John Holt, 87
The Myth of the Machine, Lewis Mumford 110
The Reforming of General Education, Daniel Bell 86
Science as Cultural Force, Harry Woolf, Ed. 111
Seven States of Matter, Gottlieb, Garbuny, Emerick 27
The Story of the New Education, William Boyd and Wyatt Rawson 87
The Symphony of Life, Donald Hatch Andrews 26

SUBJECT INDEX:

action 8, 64
aesthetics 75, 78, 79
akāśa 16, 17
animal 25
art (s) 27, 75-81, 78; appreciation 95
Atma 17
atoms 8
at-one-ment 19
awareness 88
axioms 70

behavior 12, 44, 79, 94-96; human 32, 80
biology (ist) 6, 22, 83, 84
body 6
brain (s) 11, 12, 76, 94, 100

causality (tion) 4-6, 8, 17
character 106
chemical elements 94
chess, space 18
child (ren) 19, 21, 103; ghetto 102; negro 102
China 133
choice 42, 44, 45
Christian 101

cities 59-67
cognition 17
color 130-137
commitment 125, 128
communication (s) 61, 106, 126, 128
community 98
concentration 20, 21
concept (s) 16, 36-41, 54, 73, 107, 139
conduct 196
conscience 106
consciousness 6, 17, 18, 99, 100; expansion 20, 21
construct (s) 31-33
control (ing) 42-45
cooperation 47
cosmology 52
courses, survey 39
creativity 80, 81
crystals (ine) 94; liquid 97
culture (al) (s) 44-46, 111; negroe 102
curriculum 54; design 109; integral 123; reform 128, 129

deduction 38, 40
definitions 40, 41
determinism 4-6; 8, 32, 46
development, urban 59-67
dimensionality 11-14
DNA 96
dogma 37
dolphin 13

ecology, human 3-10, 42-47
economics 51
education (al) 11-14, 20, 51, 83, 86, 123-129; general 37; integration 22, 36-41, 48, 49, 109; world 84
Ekistics 60, 85
emotion 78
empiricism 31-35
environment 5-7, 9, 44, 75, 96, 97; humanized 67
ethics 48, 46, 126, 127; scientific 3-10
evolution 6, 11, 12, 96, 99
experience 7, 51, 76-78; interior 112
experiment, controlled 5

facts 31, 37, 40
feedback 75, 79, 91-97
feeling 79
fields 28
finality 69, 70
fitness 6
food 42, 43
form (s) 25; animal 26
Foundation for Integrative Education 23, 41, 56, 109, 139
freedom 7, 46, 99
Friends, Society of 84
functional complements 95

geology 138, 139
geometry (ies) 34, 51, 70; plane 12, 13; solid 12
Gestalt, animal 25; psychology 48
ghetto 103; child 102
goal (s) 44, 108; directedness 81; human 63
growth 62

habits 13, 14

happiness 9-10, 64
hearing 77
heredity 96
holistic 83
homeostasis 93
human (ism) (ity) 11, 100, 101, 127; beings 128; ecology 3-10, 42-47; settlements 59-60

idealism 82
Indian philosophy 15-18, 132
individual (s) 93, 96, 97, 98, 100, 126
inductive 40; method 38
indwelling 112
infinity 51
insights 72
integration (ive) 37, 129, 139; education 36-41; scientific 138
intelligence 50-52
intuition 50-52, 72
invariance 80
isomorphism 48, 49

knowledge 73; unified 37

learning 80, 81, 95, 97
life 83, 91, 100; principles 97
linguistic 37
literature 124
living, characteristics of 91
logic 69, 107
love 99
LSD 19

machine 93, 111
Mahābhārata 131
man 27, 33, 60, 61, 84, 96, 98, 101, 110, 126
mathematics 34, 50, 51, 69, 70-72
matter 27, 28, 127
meaning 82, 83, 125, 126
mechanism (s) 32; neural 76, 77
meditation 19; techniques 20
megalopolis 59
mentation 94
metalanguage 70
method (s) 3, 54; inductive 38
mind 6, 7, 18, 32, 99, 100; stuff 15
moral (ity) 105, 106, 126, 128
music 27
mutation 96

nature 4, 43, 44
Negro 102-4
neighborhood 61
nervous system 94-96
noosphere 100
norms 35
Nyāya-Vaisesīka 15-18

objectivity 125
observation 15, 16
openness 23
operational procedures 40
order 4
organism 75-78
organization of experience 79; self 27

parapsychology 49
particles 5, 28, 71

pattern 95; internal 96
perception 77, 79
philosophy 22, 68, 124; Indian 15-18, 132
physics 5, 27, 38; contemporary 71; field 48;
Newtonian 69; nuclear 28
plasma 28
pleasure 9, 10
population (s) 42, 43, 62, 97
positivism 72, 83
prayer 19
prediction (s) 5, 41
principles, moral 106, 124
problems, urban 59-67
progress 9, 10
proof 4
protest (s) 123; student 124
psyche 6
psychoanalysis 48
psychology 22, 23, 48
punishment 8
purpose (s) 7, 107, 108, 127
quality 98
quantum 71
reality (ism) (ist) 11, 33, 34, 50, 82; naive 77, 78
relaxation 21; physical 20
relevance 126; academic 125, 128, 129
religion 112
resources 46; natural 60
responsibility 7, 8
responsiveness 92
reproduction 93
safety 64
Samkhya philosophy 132
satisfaction 64
schools 53; public 106
science (s) 3, 6, 22, 27, 31-35, 45, 46, 53-56, 68-74, 75-81, 111, 112, 138; education in 36; inductive 72; teaching 53-56
self 17, 18, 47; -consciousness 7; -maintenance 93, 94; -organization 27; -transformation 110
selfishness 47
semantics 37
sense (ation) (s) 7, 31, 76, 78, 79, 95
sensitivity 6, 7
servomechanism 79
set 71
silence 21
society 61, 100, 123, 124; urban 63
soul 98-101
sound 130-137
Soviet Union, 14, 36
space 12, 17, 26; chess 13; three-dimensional 11, 112
specialization 36
spirit 98, 99
standards 124
student (s) 106, 123-129
subjective 32
substance 15-18
synthesis, creative 99-101
teach (er) (ing) 39, 102, 105; science 36, 38, 53-56; training 55
technics 27, 110
technology 34, 43, 45

theory 71, 75, 79
thinking 12-14
time 17; allocation 64
toolmaking 13
transaction (al) 75, 79-81
transportation 61
truth 32
uncertainty, principle of 5
union 99
unity 75-81
universities 123-129
urban development 64
value (s) 44, 107, 128; cultural 36, 82, 83, 105-107, 124
variations, biological 6
Vietnam war 126, 128
vision 77, 79
vitalist 83
water 43, 94
waves 71
words 126
World Institute 86
world view 44

INDEX OF NAMES:

Ahobala 137
Ames, Evelyn 87
Amstutz, G.C. 24, 112, 140
Andrews, Donald Hatch 24, 26, 48, 140
Apollonius 52
Aquinas, St. Thomas 11
Aristotle 22
Ashby, W. Ross 35
Atkin, J. Myron 54, 56
Ausubel, David 54, 56
Avogadro, Amadeo 116-118
Bacon, Sir Francis 31, 35
Barnard, G. P. 115
Becker, R.O. 116, 122
Bell, Daniel 86
Bellarmine, Cardinal 116
Bergson, Henri 72-74
Besant, Annie 130, 134
Bezzola 20
Bhagvandas 135
Bhatta, N.R. 136
Binder, H. 21
Birren, Faber 134, 136
Blakney, R.B. 137
Blavatsky, H.P. 136
Bober, Juraj 36
Boericke, G.W. 117, 118, 120, 122
Bolyai, Wolfgang 51
Boyd, W. 118, 122
Boyd, William 87
Brainard, M.L. 137
Bridgman, P.W. 72, 118, 122
Bronowski 45
Brucato, A. 118, 122
Bruner, Jerome 53
Bruteau, Beatrice 23, 24, 110
Buchanan, Scott 83
Bunge, Mario 70, 74
Burr, H.S. 116, 122
Bush, Douglas 129
Bynner, Witter 115
Capek, M. 74
Carroll, Kieran J. 105
Cassier, Ernst 35
Ch'en, Shou-yi 137
Cohen, Paul J. 70
Collingwood R.G. 78, 81
Commoner, Barry 83
Conant, James B. 35
Confucius 35
Cornford, Francis M. 35
Crick, F.H.C. 116, 119, 122
Crookes, Sir William 49
Czech, Hella 25
Dampier, William Cecil 35
Daniélou, Alain 134-137
Darwin 112
Dasgupta, S.N. 135
Da Vinci, Leonardo 111
Deussen, Paul 135
Deva, Saranga 137
Dewey, John 106
Dieudonné, Jean 70, 74
Ditchburn 78
Dowden, John 136
Doxiadis, C.A. 59
Dutta, Manmatha Nath 135
Eddington 15
Ehle, Kenneth 125
Einstein 48, 51, 118
Elsasser, Walter M. 84
Elster, J. 120, 122
Emerick, Werner 27
Euclid 51, 71
Farmer, Henry George 134
Fender 78
Fincke, B. 118, 122
Forke, Alfred 137
Frank, H.S. 119, 122
Freud, Sigmund 20, 48
Fyzee-Rehman, Atiya Begum 136
Garan, D. 3
Garbuny, Max 27
Gardner, Martin 71
Gargayana 135
Gauss, Carl Friedrich 51
Gay 118, 122
Geitel, H. 120, 122
Gibbon 22
Gill, John G. 31, 107
Girard, L.E. 25, 26
Glass, B. 45
Gödel, Kurt 4, 68, 70
Gottlieb, Milton 27
Gremilly, L. Arnould 134
Grunberg, L. 120, 122
Guénon, M. René 136
Gunter, P.A.Y. 68
Gysi, Fritz 134

Hahnemann, Samuel 117, 122
 Hayek 48
 Heath, Thomas L. 35
 Hechinger, Fred M. 129
 Heisenberg, Werner 71, 74
 Henshaw, G. 118, 122
 Hermes Trismigestus 117
 Hilbert, David 70
 Hoagland, Hudson 88
 Holt, John 87
 Holton, Gerald 112
 Hurley, Patrick M. 138
 Hutchins, Robert M. 83

Infeld 48

Jacobson 20
 Jaeger, G. 118, 122
 Jarricot, J. 118, 122
 Jeans, Sir James 35
 Jordan, Pascual 100
 Jousset, P. 118, 122
 Junker, H. 118, 122
 Justa, Sister Mary 24

Kandinsky, Wassily 130, 134
 Kaviratna, Gangādharā Kaviratna 135
 Kemeny, John G. 71, 74
 Ketels, Violet 123
 King, Martin Luther 126
 Klein, A.B. 130, 134
 Koffka 76, 81
 Kogbeliantz, Ervand George 11
 Köhler, Wolfgang 48
 Koliski, L. 118, 122
 Konig, K. 118, 122
 Krawkow, N.P. 118, 122
 Krishnamacharir, M. 135-137
 Kunz, F. L. 24, 27, 50, 85, 140
 Kupka, Frank 130

Lao-Tse 6, 115
 Laszlo, Erwin 24, 75, 85, 140
 Leadbeater 130, 134
 Legge, James 137
 Lenard, P. 120, 122
 Lilienfeld 118
 Lillian, J.R., Jr. 111
 Lobatchevsky, Nicolai Ivanovich 51
 Loch, P. 118, 122
 Locke, John 31, 32
 Lorentz, Konrad 88

Malthus 43
 Margenau, Henry 24, 35, 36, 45, 46, 77, 81, 140
 Maslow, Abraham 20
 Mather, Kirtley F. 86, 138
 McCulloch, Warren S. 76, 77, 81
 Mendel 118
 Michelson 118
 Mitchell, Morris 84
 Molla 41
 Mordukhai-Boltovsky 12

More, Sir Thomas 47
 Morley 118
 Moustakas, Clark 87
 Mumford, Lewis 110
 Murphy, Gardner 23, 24, 48
 Murray, Michael H. 98
 Myers, C.S. 134
 Myrdal, Gunnar 123

Nagel, Ernest 74
 Nageli, V. 118, 122
 Napoleon 19
 Nārada 137
 Nārodetzki, Pierre 118, 122
 Natta, G. 119, 122
 Needham, Joseph 6
 Newman, James R. 74
 Newton, Sir Isaac 32
 Nicholson, S.J. 28
 Northrop, F.S.C. 24, 35, 49, 77, 81, 116, 122
 Noyes, H.F. 88

Obsatz, Michael 102
 Ortega y Gassett, Jose 105, 107
 Osis, Karlis 49

Paracelsus 117, 122
 Paske, Gerald H. 55, 56
 Pasteur, Louis 116
 Paterson, J. 118, 122
 Peerbolte, M. Lietaert 19
 Persson, V. 118, 122
 Phillips, John 84
 Pingalāchārya 136
 Phoenix, Philip 106
 Pitts, Walter 76, 77
 Planck 118
 Plato 34, 69, 115
 Platt, John R. 76, 81
 Plutarch 53
 Polanyi, M. 111, 120, 122
 Popper, Frank 134
 Portmann, Adolf 25, 84

Radhakrishnan, S. 135, 136
 Rawson, Wyatt 87
 Ribicoff, Abraham 59
 Rimington, A. Wallace 134
 Robb, J.C. 122
 Robinson, James Harvey 22
 Rockefeller, Nelson A. 82
 Rosenblueth, A. 81
 Rosser, J. Barkley 35
 Rouse 35
 Roy, J. 118, 122
 Russell, Bertrand 69, 70, 77, 81

Sachs, Curt 134, 137
 Sanford, Nevitt 129
 Sargent-Florance, M. 134
 Schrödinger, Erwin 122
 Schultz 20, 21
 Schwarz, K. 122
 Scriabin, Alexander 130, 134

Seal, B.N. 135
 Seedodiā, Jessāj Singh 137
 Seitzcheck, R. 118, 122
 Sellon, Emily B. 85
 Semmelweis 118
 Shamos, Morris 54
 Sihare, Laxmi P. 130
 Simonds, R. 140
 Simpson, G.C. 120, 122
 Skinner, B.F. 45
 Smith, Huston 74
 Smith, R. 117, 120, 122
 Somanārya 136
 Stacy, Don 111
 Stearns, G.B. 122
 Stephenson, James H. 115
 Stephenson, R. 118, 122
 Stevens, S.S. 48
 Stulman, Julius 23, 86
 Subbarayappa, B.V. 15
 Sukthānkar, V.S. 134
 Suppes, Patrick 35
 Szilard, Leo 49

Tagore, Sourinda Mohan 137
 Taylor 12
 Taylor, Alastair 24, 140
 Teilhard de Chardin 98-101
 Thornton, Robert 25, 91, 140
 Toulmin, S. 45
 Truman, David B. 86
 Turing, A.M. 121, 122

Ullman 49

Varmā, Siddheshwar 134
 Vasiliev 49
 Vondracek, V. 118, 122
 von Foerster, Mora and Amiot 42

Waley, Arthur 137
 Wannamaker, A.K. 117, 122
 Watson, J.D. 116, 119, 122
 Weber, Albrecht 135, 136
 Weber, René 123
 Weiss, P. 120, 122
 Welch, Richard 24
 Welleck, Albert 134, 137
 Wen, Wy 119, 122
 Whipple, Richard O. 3, 42
 Whitehead, Alfred North 35, 50, 69, 129
 Wigner, E. 120, 122
 Wilfred, Thomas 130, 134
 Wilson, H.H. 136
 Wöhler, F. 107
 Wolff, Michael F. 55, 56
 Woodroffe, John 135
 Woolf, Harry 111
 Wright, K.H.R. 122
 Wurmser, L. 118, 122

Xenophanes 52

